

WHAT IS CLAIMED IS:

1. A mobile phone apparatus comprising:

local wireless communication means for realizing a short range wireless communication system;

5 a memory for pre-registering the information on a plurality of local wireless communication devices adapted for communication in accordance with said short range wireless communication system; and

means for controlling said local wireless communication means to transmit a connection request to the local wireless communication device, registered in said memory, on the occasion of an incoming call.

2. The mobile phone apparatus according to claim 1, further comprising means for determining a device for connection from among said plural local wireless communication devices, registered in said memory, on the occasion of the incoming call, in accordance with a predetermined
5 priority order, wherein said connection request is transmitted to the so determined local wireless communication device by said local wireless communication means.

3. A mobile phone apparatus comprising:

local wireless communication means for realizing a short range wireless communication system:

5 a memory for pre-registering the information on a plurality of local wireless communication devices adapted for communication in accordance with said short range wireless communication system;

means for controlling said local wireless communication means to transmit a connection request to each of the totality of local wireless

communication devices, registered in said memory, on the occasion of an
10 incoming call; and

means for determining a device for connection from among said
local wireless communication devices, each making a connection
response to said connection request, in accordance with a preset priority
order.

4. The mobile phone apparatus according to claim 2, wherein a rank in
said priority order is accorded to an awaiting state of said local wireless
communication means and registered in said memory.

5. The mobile phone apparatus according to claim 3, wherein a rank in
said priority order is accorded to an awaiting state of said local wireless
communication means and registered in said memory.

6. The mobile phone apparatus according to claim 1, further comprising
means for controlling said local wireless communication means to
disconnect said local wireless communication connection, when a line
having connection with said local wireless communication device
5 established is disconnected.

7. The mobile phone apparatus according to claim 3, further comprising
means for controlling said local wireless communication means to
disconnect said local wireless communication connection, when a line
having connection with said local wireless communication device
5 established is disconnected.

8. The mobile phone apparatus according to claim 2, further
comprising:

means for searching near-by local wireless communication

devices at a preset constant time interval; and

- 5 means for dynamically changing said priority order responsive to the search result.

9. The mobile phone apparatus according to claim 3, further comprising:

means for searching near-by local wireless communication devices at a preset constant time interval; and

- 5 means for dynamically changing said priority order responsive to the search result.

10. The mobile phone apparatus according to claim 2, further comprising:

means for retrieving use frequency of the local wireless communication devices at a preset constant time interval; and

- 5 means for dynamically changing said priority order responsive to the retrieved use frequency.

11. The mobile phone apparatus according to claim 3, further comprising:

means for retrieving use frequency of the local wireless communication devices at a preset constant time interval; and

- 5 means for dynamically changing said priority order responsive to the retrieved use frequency.

12. A mobile phone apparatus comprising:

local wireless communication means for realizing a short range wireless communication system;

means for setting said local wireless communication means to an

5 awaiting state on the occasion of an incoming call; and

 means for controlling said local wireless communication means to perform connection processing to the local wireless communication device, on receipt of a connection request which said local wireless communication device issues, during a period of said function of local
10 wireless communication being in said awaiting state.

13. A method of performing local wireless communication by a mobile phone apparatus including a function of local wireless communication for realizing a short range wireless communication system, said method comprising the steps of:

5 detecting an incoming call to said mobile phone apparatus; and
 transmitting, on the occasion of said incoming call, a connection request, using said function of local wireless communication, to one of plural local wireless communication devices registered in a memory for pre-registering the information of said local wireless communication
10 devices with which said mobile phone apparatus communicates in accordance with said short range wireless communication system.

14. The method according to claim 13, further comprising steps of:

 determining a local wireless communication device for connection, from among plural local wireless communication devices registered in said memory, on the occasion of said incoming call, in
5 accordance with a pre-set priority order; and

 transmitting the connection request to the so determined local wireless communication device, using said function of local wireless communication.

15. A method of performing local wireless communication by a mobile phone apparatus including a function of local wireless communication for realizing a short range wireless communication system, said method comprising the steps of:

- 5 detecting an incoming call to the mobile phone apparatus; and
transmitting, on the occasion of the incoming call, a connection request to each of plural local wireless communication devices registered in a memory for pre-registering the information of said local wireless communication devices, with which said mobile phone apparatus
10 communicating in accordance with said short range wireless communication system; and
determining a local wireless communication device for connection from among plural local wireless communication devices, each making a connection response to said connection request, in
15 accordance with a pre-set priority order.

16. The method according to claim 14, wherein a rank in said priority order is accorded to said awaiting state of said local wireless communication function and registered in said memory.

17. The method according to claim 15, wherein a rank in said priority order is accorded to said awaiting state of said local wireless communication function and registered in said memory.

18. The method according to claim 13, further comprising the step of
disconnecting said local wireless communication connection when a line connection with said local wireless communication device is disconnected.

19. The method according to claim 15, further comprising the step of
disconnecting said local wireless communication connection
when a line connection with said local wireless communication device is
disconnected.
20. The method according to claim 14, further comprising the steps of:
searching near-by local wireless communication devices at a
preset constant time interval; and
dynamically changing said priority order responsive to the so
5 retrieved use frequency.
21. The method according to claim 15, further comprising the steps of:
searching near-by local wireless communication devices at a
preset constant time interval; and
dynamically changing said priority order responsive to the so
5 retrieved use frequency.
22. The method according to claim 14, further comprising the steps of:
searching the use frequency of said near-by local wireless
communication devices at a preset constant time interval; and
dynamically changing said priority order responsive to the so
5 retrieved use frequency.
23. The method according to claim 15, further comprising the steps of:
searching the use frequency of said near-by local wireless
communication devices at a preset constant time interval; and
dynamically changing said priority order responsive to the so
5 retrieved use frequency.
24. A method of performing local wireless communication by a mobile

phone apparatus including a function of local wireless communication for realizing a short range wireless communication system, said method comprising the steps of:

- 5 detecting an incoming call to said mobile phone apparatus;
 setting said function of local wireless communication to an
 awaiting state on the occasion of said incoming call; and
 performing connection processing to the local wireless
 communication device, using said function of local wireless
10 communication, on receipt of a connection request which the local
 wireless communication device issues, during a period of said function
 of local wireless communication being in said awaiting state.

25. A computer program embodied on a computer readable medium for
 enabling a computer constituting a mobile phone apparatus including a
 function of local wireless communication for realizing a short range
 wireless communication system to execute a local wireless
5 communication processing, said computer program comprising code
 segments to enable the computer to execute the steps of:

- detecting an incoming call to the mobile phone apparatus; and
 transmitting, on the occasion of said incoming call, using said
 function of local wireless communication, a connection request to one of
10 plural local wireless communication devices registered in a memory for
 pre-registering the information of said local wireless communication
 devices, with which said mobile phone apparatus communicates in
 accordance with said short range wireless communication system.

26. A computer program embodied on a computer readable medium for

enabling a computer constituting a mobile phone apparatus including a function of local wireless communication for realizing a short range wireless communication system to execute a local wireless communication processing, said computer program comprising code segments to enable the computer to execute the steps of:

detecting an incoming call to the mobile phone apparatus;

transmitting a connection request to each of plural local wireless communication devices registered in a memory for pre-registering the information of said local wireless communication devices, with which said mobile phone communicates in accordance with said short range wireless communication system on call oncoming; and

determining a local wireless communication device for connection from among the plural local wireless communication devices, each making a connection response to said connection request, in accordance with a pre-set priority order.

27. A computer program embodied on a computer readable medium for enabling a computer constituting a mobile phone apparatus including a function of local wireless communication for realizing a short range wireless communication system to execute a local wireless communication processing, said computer program comprising code segments to enable the computer to execute the steps of:

detecting an incoming call to said mobile phone;

setting said function of local wireless communication to a waiting state on the occasion of said incoming call; and

performing connection processing to the local wireless

communication device, using said function of local wireless communication, on receipt of a connection request which the local wireless communication device issues, during a period of said function of local wireless communication being in said waiting state.